

● Standard type model number list

●: Model availability

Model		Model number	Minimum orifice diameter [mm]	Flow rate [L/min] at following pressure [MPa]								Spray angle at following pressure [MPa]					
KSZ	KSZS			0.05	0.1	0.2	0.3	0.5	0.7	1.0	1.5	0.1	0.2	0.3	0.5	1.0	1.5
	●	0420	1.8	1.63	2.3	3.3	4.0	5.2	6.1	7.3	8.9	13°	17°	20°	22°	24°	24°
	●	0430	1.7	1.63	2.3	3.3	4.0	5.2	6.1	7.3	8.9	21°	27°	30°	33°	35°	35°
	●	0445	1.6	1.63	2.3	3.3	4.0	5.2	6.1	7.3	8.9	35°	41°	45°	49°	51°	51°
	●	0460	1.4	1.63	2.3	3.3	4.0	5.2	6.1	7.3	8.9	49°	56°	60°	64°	67°	67°
	●	0490	1.1	1.63	2.3	3.3	4.0	5.2	6.1	7.3	8.9	75°	84°	90°	95°	98°	98°
	●	04120	0.8	1.63	2.3	3.3	4.0	5.2	6.1	7.3	8.9	105°	114°	120°	126°	129°	129°
	●	0520	2.0	2.0	2.9	4.1	5.0	6.5	7.6	9.1	11.2	13°	17°	20°	22°	24°	24°
	●	0530	1.9	2.0	2.9	4.1	5.0	6.5	7.6	9.1	11.2	21°	27°	30°	33°	35°	35°
	●	0545	1.8	2.0	2.9	4.1	5.0	6.5	7.6	9.1	11.2	35°	41°	45°	49°	51°	51°
	●	0560	1.6	2.0	2.9	4.1	5.0	6.5	7.6	9.1	11.2	49°	56°	60°	64°	67°	67°
	●	0590	1.2	2.0	2.9	4.1	5.0	6.5	7.6	9.1	11.2	75°	84°	90°	95°	98°	98°
	●	05120	0.9	2.0	2.9	4.1	5.0	6.5	7.6	9.1	11.2	105°	114°	120°	126°	129°	129°
●	●	0620	2.2	2.4	3.5	4.9	6.0	7.7	9.2	11.0	13.4	13°	17°	20°	22°	24°	24°
●	●	0630	2.1	2.4	3.5	4.9	6.0	7.7	9.2	11.0	13.4	21°	27°	30°	33°	35°	35°
●	●	0645	2.0	2.4	3.5	4.9	6.0	7.7	9.2	11.0	13.4	35°	41°	45°	49°	51°	51°
●	●	0660	1.8	2.4	3.5	4.9	6.0	7.7	9.2	11.0	13.4	49°	56°	60°	64°	67°	67°
●	●	0690	1.3	2.4	3.5	4.9	6.0	7.7	9.2	11.0	13.4	75°	84°	90°	95°	98°	98°
●	●	06120	1.0	2.4	3.5	4.9	6.0	7.7	9.2	11.0	13.4	105°	114°	120°	126°	129°	129°
●	●	0720	2.4	2.9	4.0	5.7	7.0	9.0	10.7	12.8	15.7	13°	17°	20°	22°	24°	24°
●	●	0730	2.3	2.9	4.0	5.7	7.0	9.0	10.7	12.8	15.7	21°	27°	30°	33°	35°	35°
●	●	0745	2.2	2.9	4.0	5.7	7.0	9.0	10.7	12.8	15.7	35°	41°	45°	49°	51°	51°
●	●	0760	1.9	2.9	4.0	5.7	7.0	9.0	10.7	12.8	15.7	49°	56°	60°	64°	66°	66°
●	●	0790	1.5	2.9	4.0	5.7	7.0	9.0	10.7	12.8	15.7	77°	85°	90°	95°	97°	97°
●	●	07120	1.2	2.9	4.0	5.7	7.0	9.0	10.7	12.8	15.7	105°	114°	120°	125°	128°	128°
●	●	0820	2.6	3.3	4.6	6.5	8.0	10.3	12.2	14.6	17.9	13°	17°	20°	22°	24°	24°
●	●	0830	2.4	3.3	4.6	6.5	8.0	10.3	12.2	14.6	17.9	21°	27°	30°	33°	35°	35°
●	●	0845	2.3	3.3	4.6	6.5	8.0	10.3	12.2	14.6	17.9	35°	41°	45°	49°	51°	51°
●	●	0860	2.1	3.3	4.6	6.5	8.0	10.3	12.2	14.6	17.9	49°	56°	60°	64°	66°	66°
●	●	0890	1.6	3.3	4.6	6.5	8.0	10.3	12.2	14.6	17.9	77°	85°	90°	95°	97°	97°
●	●	08120	1.3	3.3	4.6	6.5	8.0	10.3	12.2	14.6	17.9	105°	114°	120°	125°	128°	128°
●	●	0920	2.8	3.7	5.2	7.3	9.0	11.6	13.7	16.4	20.1	13°	17°	20°	22°	24°	24°
●	●	0930	2.6	3.7	5.2	7.3	9.0	11.6	13.7	16.4	20.1	21°	27°	30°	33°	35°	35°
●	●	0945	2.4	3.7	5.2	7.3	9.0	11.6	13.7	16.4	20.1	36°	42°	45°	49°	51°	51°
●	●	0960	2.2	3.7	5.2	7.3	9.0	11.6	13.7	16.4	20.1	50°	56°	60°	64°	66°	66°
●	●	0990	1.7	3.7	5.2	7.3	9.0	11.6	13.7	16.4	20.1	77°	85°	90°	95°	97°	97°
●	●	09120	1.4	3.7	5.2	7.3	9.0	11.6	13.7	16.4	20.1	106°	115°	120°	125°	127°	127°
●	●	1020	3.0	4.1	5.8	8.2	10.0	12.9	15.3	18.3	22.4	13°	17°	20°	22°	24°	24°
●	●	1030	2.8	4.1	5.8	8.2	10.0	12.9	15.3	18.3	22.4	21°	27°	30°	33°	35°	35°
●	●	1045	2.6	4.1	5.8	8.2	10.0	12.9	15.3	18.3	22.4	36°	42°	45°	49°	51°	51°
●	●	1060	2.4	4.1	5.8	8.2	10.0	12.9	15.3	18.3	22.4	50°	56°	60°	64°	66°	66°
●	●	1090	1.8	4.1	5.8	8.2	10.0	12.9	15.3	18.3	22.4	77°	85°	90°	95°	97°	97°
●	●	10120	1.5	4.1	5.8	8.2	10.0	12.9	15.3	18.3	22.4	106°	115°	120°	125°	127°	127°
●	●	1220	3.2	4.9	6.9	9.8	12.0	15.5	18.3	21.9	26.8	13°	17°	20°	22°	24°	24°
●	●	1230	3.0	4.9	6.9	9.8	12.0	15.5	18.3	21.9	26.8	21°	27°	30°	33°	35°	35°
●	●	1245	2.8	4.9	6.9	9.8	12.0	15.5	18.3	21.9	26.8	36°	42°	45°	49°	51°	51°
●	●	1260	2.6	4.9	6.9	9.8	12.0	15.5	18.3	21.9	26.8	50°	56°	60°	64°	66°	66°
●	●	1290	2.1	4.9	6.9	9.8	12.0	15.5	18.3	21.9	26.8	77°	85°	90°	95°	97°	97°
●	●	12120	1.7	4.9	6.9	9.8	12.0	15.5	18.3	21.9	26.8	106°	115°	120°	125°	127°	127°
●	●	1520	3.7	6.1	8.7	12.2	15.0	19.4	22.9	27.4	33.5	13°	17°	20°	22°	24°	24°
●	●	1530	3.5	6.1	8.7	12.2	15.0	19.4	22.9	27.4	33.5	21°	27°	30°	33°	35°	35°
●	●	1545	3.3	6.1	8.7	12.2	15.0	19.4	22.9	27.4	33.5	36°	42°	45°	49°	51°	51°
●	●	1560	3.0	6.1	8.7	12.2	15.0	19.4	22.9	27.4	33.5	50°	56°	60°	64°	66°	66°
●	●	1590	2.4	6.1	8.7	12.2	15.0	19.4	22.9	27.4	33.5	78°	85°	90°	95°	97°	97°
●	●	15120	1.9	6.1	8.7	12.2	15.0	19.4	22.9	27.4	33.5	106°	115°	120°	125°	127°	127°
●	●	2020	4.2	8.2	11.5	16.3	20.0	25.8	30.6	36.5	44.7	13°	17°	20°	22°	24°	24°
●	●	2030	4.0	8.2	11.5	16.3	20.0	25.8	30.6	36.5	44.7	21°	27°	30°	33°	35°	35°
●	●	2045	3.8	8.2	11.5	16.3	20.0	25.8	30.6	36.5	44.7	36°	42°	45°	49°	51°	51°
●	●	2060	3.5	8.2	11.5	16.3	20.0	25.8	30.6	36.5	44.7	50°	56°	60°	64°	66°	66°
●	●	2090	2.9	8.2	11.5	16.3	20.0	25.8	30.6	36.5	44.7	78°	85°	90°	95°	97°	97°
●	●	20120	2.3	8.2	11.5	16.3	20.0	25.8	30.6	36.5	44.7	106°	115°	120°	125°	127°	127°

● Standard type model number list

● : Model availability

Model		Model number	Minimum orifice diameter [mm]	Flow rate [L/min] at following pressure [MPa]								Spray angle at following pressure [MPa]					
KSZ	KSZS			0.05	0.1	0.2	0.3	0.5	0.7	1.0	1.5	0.1	0.2	0.3	0.5	1.0	1.5
●		2520	4.6	10.2	14.4	20.4	25.0	32.3	38.2	45.6	55.9	13°	17°	20°	22°	24°	24°
●		2530	4.4	10.2	14.4	20.4	25.0	32.3	38.2	45.6	55.9	21°	27°	30°	33°	35°	35°
●		2545	4.2	10.2	14.4	20.4	25.0	32.3	38.2	45.6	55.9	36°	42°	45°	49°	51°	51°
●		2560	3.9	10.2	14.4	20.4	25.0	32.3	38.2	45.6	55.9	50°	56°	60°	64°	66°	66°
●		2590	3.3	10.2	14.4	20.4	25.0	32.3	38.2	45.6	55.9	78°	85°	90°	95°	97°	97°
●		25120	2.6	10.2	14.4	20.4	25.0	32.3	38.2	45.6	55.9	106°	115°	120°	125°	127°	127°
●		3020	4.9	12.2	17.3	24.5	30.0	38.7	45.8	54.8	67.1	13°	17°	20°	22°	24°	24°
●		3030	4.7	12.2	17.3	24.5	30.0	38.7	45.8	54.8	67.1	21°	27°	30°	33°	35°	35°
●		3045	4.5	12.2	17.3	24.5	30.0	38.7	45.8	54.8	67.1	36°	42°	45°	49°	51°	51°
●		3060	4.3	12.2	17.3	24.5	30.0	38.7	45.8	54.8	67.1	50°	56°	60°	64°	66°	66°
●		3090	3.7	12.2	17.3	24.5	30.0	38.7	45.8	54.8	67.1	78°	85°	90°	95°	97°	97°
●		30120	2.8	12.2	17.3	24.5	30.0	38.7	45.8	54.8	67.1	106°	115°	120°	125°	127°	127°
●		3520	5.3	14.3	20.2	28.6	35.0	45.2	53.5	63.9	78.3	13°	17°	20°	22°	24°	24°
●		3530	5.1	14.3	20.2	28.6	35.0	45.2	53.5	63.9	78.3	21°	27°	30°	33°	35°	35°
●		3545	4.9	14.3	20.2	28.6	35.0	45.2	53.5	63.9	78.3	36°	42°	45°	49°	51°	51°
●		3560	4.6	14.3	20.2	28.6	35.0	45.2	53.5	63.9	78.3	50°	56°	60°	64°	66°	66°
●		3590	4.0	14.3	20.2	28.6	35.0	45.2	53.5	63.9	78.3	78°	85°	90°	95°	97°	97°
●		35120	3.1	14.3	20.2	28.6	35.0	45.2	53.5	63.9	78.3	106°	115°	120°	125°	127°	127°
●		4020	5.8	16.3	23.1	32.7	40.0	51.6	61.1	73.0	89.4	13°	17°	20°	22°	24°	24°
●		4030	5.6	16.3	23.1	32.7	40.0	51.6	61.1	73.0	89.4	22°	27°	30°	33°	35°	35°
●		4045	5.3	16.3	23.1	32.7	40.0	51.6	61.1	73.0	89.4	36°	42°	45°	48°	50°	50°
●		4060	5.0	16.3	23.1	32.7	40.0	51.6	61.1	73.0	89.4	50°	56°	60°	64°	66°	66°
●		4090	4.3	16.3	23.1	32.7	40.0	51.6	61.1	73.0	89.4	79°	86°	90°	94°	96°	96°
●		40120	3.4	16.3	23.1	32.7	40.0	51.6	61.1	73.0	89.4	107°	116°	120°	125°	127°	127°
●		5020	6.6	20.4	28.9	40.8	50.0	64.5	76.4	91.3	112	13°	17°	20°	22°	24°	24°
●		5030	6.3	20.4	28.9	40.8	50.0	64.5	76.4	91.3	112	22°	27°	30°	32°	34°	34°
●		5045	5.8	20.4	28.9	40.8	50.0	64.5	76.4	91.3	112	36°	42°	45°	48°	50°	50°
●		5060	5.4	20.4	28.9	40.8	50.0	64.5	76.4	91.3	112	50°	56°	60°	63°	65°	65°
●		5090	4.7	20.4	28.9	40.8	50.0	64.5	76.4	91.3	112	79°	86°	90°	94°	96°	96°
●		50120	3.8	20.4	28.9	40.8	50.0	64.5	76.4	91.3	112	107°	116°	120°	125°	127°	127°
●		6020	7.3	24.5	34.6	49.0	60.0	77.5	91.7	110	134	13°	17°	20°	22°	24°	24°
●		6030	6.9	24.5	34.6	49.0	60.0	77.5	91.7	110	134	22°	27°	30°	32°	34°	34°
●		6045	6.4	24.5	34.6	49.0	60.0	77.5	91.7	110	134	36°	42°	45°	48°	50°	50°
●		6060	6.0	24.5	34.6	49.0	60.0	77.5	91.7	110	134	51°	57°	60°	63°	65°	65°
●		6090	5.3	24.5	34.6	49.0	60.0	77.5	91.7	110	134	79°	86°	90°	93°	95°	95°
●		60120	4.2	24.5	34.6	49.0	60.0	77.5	91.7	110	134	108°	116°	120°	123°	126°	126°
●		7020	7.9	28.6	40.4	57.2	70.0	90.4	107	128	157	13°	17°	20°	22°	24°	24°
●		7030	7.5	28.6	40.4	57.2	70.0	90.4	107	128	157	22°	27°	30°	32°	34°	34°
●		7045	6.9	28.6	40.4	57.2	70.0	90.4	107	128	157	36°	42°	45°	48°	50°	50°
●		7060	6.6	28.6	40.4	57.2	70.0	90.4	107	128	157	51°	57°	60°	63°	65°	65°
●		7090	5.8	28.6	40.4	57.2	70.0	90.4	107	128	157	79°	86°	90°	93°	95°	95°
●		70120	4.6	28.6	40.4	57.2	70.0	90.4	107	128	157	108°	116°	120°	123°	126°	126°
●		8020	8.4	32.7	46.2	65.3	80.0	103	122	146	179	13°	17°	20°	22°	24°	24°
●		8030	8.0	32.7	46.2	65.3	80.0	103	122	146	179	22°	27°	30°	32°	34°	34°
●		8045	7.7	32.7	46.2	65.3	80.0	103	122	146	179	36°	42°	45°	48°	50°	50°
●		8060	7.2	32.7	46.2	65.3	80.0	103	122	146	179	51°	57°	60°	63°	65°	65°
●		8090	6.4	32.7	46.2	65.3	80.0	103	122	146	179	79°	86°	90°	93°	95°	95°
●		80120	4.8	32.7	46.2	65.3	80.0	103	122	146	179	108°	116°	120°	123°	126°	126°

Flat Pattern Nozzles

A
10

Flat Spray Nozzle Dovetail type