

● Standard type model number list (model: KSF····F, flange size: 2B to 3B)

●: Model availability

Flange size			Model number	Minimum orifice diameter [mm]	Flow rate [L/min] at following pressure [MPa]							Spray angle at following pressure [MPa]			
2B	2½B	3B			0.05	0.1	0.2	0.3	0.5	0.7	1.0	0.05	0.1	0.3	0.5
●			30070	10.3	139	187	252	300	374	432	504	67°	74°	70°	67°
●			30090	10.3	139	187	252	300	374	432	504	86°	98°	90°	83°
●			300120W	10.3	139	187	252	300	374	432	504	121°	134°	120°	113°
●			35070	11.1	162	218	294	350	436	504	588	67°	74°	70°	67°
●			35090	11.1	162	218	294	350	436	504	588	86°	98°	90°	83°
●			350120W	11.1	162	218	294	350	436	504	588	121°	134°	120°	113°
●			40070	11.9	185	250	336	400	499	576	672	67°	74°	70°	67°
●			40090	11.9	185	250	336	400	499	576	672	86°	98°	90°	83°
●			400120W	11.9	185	250	336	400	499	576	672	121°	134°	120°	113°
●	●		50070	13.3	232	312	420	500	623	720	840	67°	76°	70°	67°
●	●		50090	13.3	232	312	420	500	623	720	840	88°	100°	90°	84°
●	●		500120W	13.3	232	312	420	500	623	720	840	123°	136°	120°	113°
	●		60070	14.5	278	374	504	600	748	864	1008	67°	76°	70°	67°
	●		60090	14.5	278	374	504	600	748	864	1008	88°	100°	90°	84°
	●		600120W	14.5	278	374	504	600	748	864	1008	123°	136°	120°	115°
	●		70070	15.7	324	437	588	700	873	1008	1176	67°	76°	70°	67°
	●		70090	15.7	324	437	588	700	873	1008	1176	88°	100°	90°	84°
	●		700120W	15.7	324	437	588	700	873	1008	1176	123°	136°	120°	115°
	●	●	80070	16.8	371	499	673	800	997	1153	1344	67°	76°	70°	67°
	●	●	80090	16.8	371	499	673	800	997	1153	1344	88°	100°	90°	84°
	●	●	800120W	16.8	371	499	673	800	997	1153	1344	123°	136°	120°	115°

● Standard type model number list (model: KSF····F, 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 following pressure [MPa]			
3B	4B	5B	6B	8B			0.03	0.05	0.07	0.1	0.15	0.2	0.3	0.03	0.07	0.15	0.3
●					90070	17	335	417	482	562	669	757	900	55°	70°	74°	71°
●					90090	17	335	417	482	562	669	757	900	73°	90°	95°	92°
●					900120W	17	335	417	482	562	669	757	900	108°	120°	127°	114°
●	●				100070	18	372	463	535	624	743	841	1000	55°	70°	74°	70°
●	●				100090	18	372	463	535	624	743	841	1000	73°	90°	94°	90°
●	●				1000120W	18	372	463	535	624	743	841	1000	110°	120°	124°	112°
	●				125070	20	465	579	669	780	929	1051	1250	57°	70°	73°	70°
	●				125090	20	465	579	669	780	929	1051	1250	75°	90°	94°	90°
	●				1250120W	20	465	579	669	780	929	1051	1250	110°	120°	124°	112°
	●	●			150070	22	558	695	803	936	1114	1261	1500	58°	70°	73°	70°
	●	●			150090	22	558	695	803	936	1114	1261	1500	77°	90°	93°	88°
	●	●			1500120W	22	558	695	803	936	1114	1261	1500	112°	120°	121°	110°
		●			175070	24	651	811	937	1092	1300	1471	1750	60°	70°	72°	68°
		●			175090	24	651	811	937	1092	1300	1471	1750	78°	90°	93°	88°
		●			1750120W	24	651	811	937	1092	1300	1471	1750	112°	120°	121°	110°
		●			200070	26	744	926	1071	1248	1486	1681	2000	62°	70°	72°	68°
		●			200090	26	744	926	1071	1248	1486	1681	2000	80°	90°	92°	86°
		●			2000120W	26	744	926	1071	1248	1486	1681	2000	115°	120°	118°	107°
		●	●		250070	29	930	1158	1338	1560	1857	2102	2500	64°	70°	71°	68°
		●	●		250090	29	930	1158	1338	1560	1857	2102	2500	83°	90°	92°	86°
		●	●		2500120W	29	930	1158	1338	1560	1857	2102	2500	115°	120°	118°	107°
			●		300070	32	1115	1390	1606	1872	2229	2522	3000	66°	70°	71°	68°
			●		300090	32	1115	1390	1606	1872	2229	2522	3000	85°	90°	90°	85°
			●		3000120W	32	1115	1390	1606	1872	2229	2522	3000	117°	120°	115°	105°
			●		350070	34	1301	1621	1873	2184	2600	2942	3500	66°	70°	70°	66°
			●		350090	34	1301	1621	1873	2184	2600	2942	3500	88°	90°	90°	85°
			●		3500120W	34	1301	1621	1873	2184	2600	2942	3500	117°	120°	115°	105°
			●	●	400070	37	1487	1853	2141	2496	2971	3363	4000	68°	70°	70°	66°
			●	●	400090	37	1487	1853	2141	2496	2971	3363	4000	88°	90°	88°	83°
			●	●	4000120W	37	1487	1853	2141	2496	2971	3363	4000	119°	120°	113°	103°
				●	500070	41	1859	2316	2676	3120	3714	4203	5000	70°	70°	69°	66°
				●	500090	41	1859	2316	2676	3120	3714	4203	5000	90°	90°	88°	82°
				●	5000120W	41	1859	2316	2676	3120	3714	4203	5000	120°	120°	113°	101°
				●	600070	45	2231	2779	3212	3744	4457	5044	6000	70°	70°	69°	66°
				●	600090	45	2231	2779	3212	3744	4457	5044	6000	90°	90°	88°	82°
				●	6000120W	45	2231	2779	3212	3744	4457	5044	6000	120°	120°	113°	101°

\* Method to calculate spray angles

- The spray angle for nozzle model numbers 800120W or less is calculated from the effective spray diameter at a distance of 500 mm when spraying downward.
- The spray angle for nozzle model numbers 90070 or more is calculated from the effective spray diameter at a distance of 1000 mm when spraying downward.

● Model and Model Number representing

