

Full cone nozzles

Series 4Fx

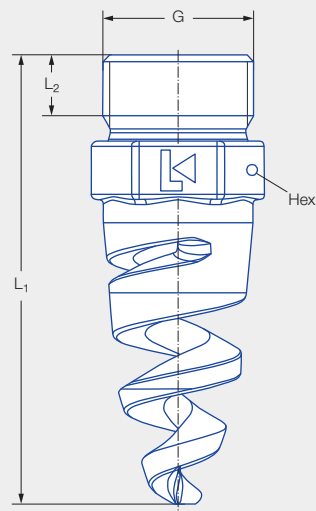
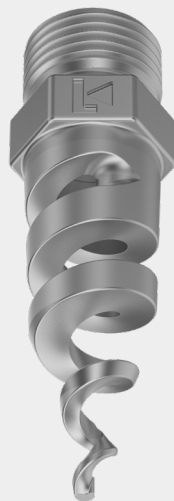


Features:

- Fine droplet sizes
- Low weight
- Robust design
- Maintenance free

Applications:

- General Industry
- Flue gas desulphurization
- (special material)
- General cooling
- General gas humidification



Series 4Fx

Spray angle	Ordering no.						Bore diameter B [mm]]	V̇ water [l/min]						L1 [mm]	L2 [mm]	Hex	Weight [g]	Spray diameter D [mm] (at p = 2 bar)		
	Type	Mat. no.	Code																	
		1Y	1/2 BSPP	3/4 BSPP	1BSPP	1 1/2 BSPP		2 BSPP												
									Stainless steel 316L											
								0,3	0,5	1,0	2,0	5,0	10,0					H = 500 [mm]	H = 1.000 [mm]	
60°	4F5.254	●		AK				6.0	51	66	93	132	209	295	94.0	11.8	27	106.0	600	800
	4F5.334	●			AM			7.0	82	106	150	212	335	474	123.0	12.6	34	218.0	600	1,000
	4F5.354	●			AM			7.0	91	118	167	236	373	528	123.0	12.6	34	214.0	600	1,000
	4F5.394	●			AM			7.0	116	150	212	300	474	671	123.0	12.6	34	187.0	600	1,000
	4F5.454	●				AR		9.0	165	213	301	425	672	950	153.0	16.6	50	573.0	800	1,200
	4F5.504	●				AR		10.0	217	280	396	560	885	1,252	153.0	16.6	50	529.0	600	1,000
	4F5.524	●				AR		11.0	244	315	445	630	996	1,409	153.0	16.6	50	518.0	800	1,200
	4F5.584	●					AV	20.0	349	450	636	900	1,423	2,012	203.0	18.6	60	959.0	800	1,200
	4F5.614	●					AV	24.0	434	560	792	1,120	1,771	2,504	203.0	18.6	60	892.0	800	1,200
90°	4F5.166	●	AG					4.5	31	40	57	80	126	179	69.0	9.8	22	78.0	900	1,400
	4F5.216	●	AG					4.5	41	53	75	106	168	237	69.0	9.8	22	75.0	800	1,600
	4F5.256	●		AK				7.0	51	66	93	132	209	295	79.0	11.8	27	106.0	900	1,800
	4F5.336	●			AM			7.0	82	106	150	212	335	474	110.0	12.6	34	237.0	1,000	2,000
	4F5.396	●			AM			8.0	116	150	212	300	474	671	110.0	12.6	34	220.0	1,000	2,000
	4F5.456	●				AR		11.0	165	213	301	425	672	950	125.0	16.6	50	478.0	900	1,800
	4F5.506	●				AR		12.0	217	280	396	560	885	1,252	125.0	16.6	50	442.0	1,000	1,600
	4F5.526	●				AR		12.0	244	315	445	630	996	1,409	125.0	16.6	50	423.0	800	1,400
	4F5.586	●					AV	15.0	349	450	636	900	1,423	2,012	176.0	18.6	60	978.0	1,200	2,200
	4F5.616	●					AV	15.0	434	560	792	1,120	1,771	2,504	176.0	18.6	60	900.0	1,200	2,000





Spray angle	Ordering no.							Bore diameter B [mm]	V̇ water [l/min]						L1 [mm]	L2 [mm]	Hex	Weight [g]	Spray diameter D [mm] (at p = 2 bar)	
	Type	Mat.-Nr.	Code																	
		1Y	1/2 BSPP	3/4 BSPP	1BSPP	1 1/2 BSPP	2 BSPP													
		Stainless steel 316L																		
								0.3	0.5	1.0	2.0	5.0	10.0					H = 500 [mm]	H = 1,000 [mm]	
120°	4F5.218	●	AG					5.0	41	53	75	106	168	237	69.0	9.8	22	50.0	1,400	2,400
	4F5.258	●		AK				6.0	51	66	93	132	209	295	79.0	11.8	27	109.0	1,600	2,600
	4F5.338	●			AM			7.0	82	106	150	212	335	474	110.0	12.6	34	248.0	1,600	3,200
	4F5.398	●			AM			9.0	116	150	212	300	474	671	110.0	12.6	34	227.0	1,800	2,600
	4F5.458	●				AR		12.0	165	213	301	425	672	950	130.0	16.6	50	561.0	1,400	2,400
	4F5.508	●				AR		12.0	217	280	396	560	885	1.252	130.0	16.6	50	530.0	2,000	3,000
	4F5.528	●				AR		12.0	244	315	445	630	996	1.409	130.0	16.6	50	510.0	1,600	2,600
	4F7.588	●					AV	12.0	349	450	636	900	1.423	2.012	191.0	18.6	60	1.058.0	1,600	2,800
	4F7.618	●					AV	13.0	434	560	792	1,120	1.771	2.504	191.0	18.6	60	986.0	1,800	2,800
150°	4F7.339	●			AM			8.0	82	106	150	212	335	474	119.0	12.6	34	258.0	2,200	4,200
	4F7.399	●			AM			8.0	116	150	212	300	474	671	119.0	12.6	34	237.0	2,200	4,200
170°	4F7.250	●		AK				6.0	51	66	93	132	209	295	94.0	11.8	27	120.0	3,000	5,400
	4F7.330	●			AM			8.0	82	106	150	212	335	474	119.0	12.6	34	272.0	4,000	6,000
	4F7.390	●			AM			8.0	116	150	212	300	474	671	119.0	12.6	34	253.0	4,000	6,000
	4F7.450	●				AR		10.0	165	213	301	425	672	950	156.0	16.6	50	642.0	2,800	4,400
	4F7.500	●				AR		10.0	217	280	396	560	885	1.252	156.0	16.6	50	604.0	3,400	4,800
	4F7.520	●				AR		10.0	244	315	445	630	996	1.409	156.0	16.6	50	585.0	3,400	4,400

Manufacture in other materials and with external threads according to EN 10226 or NPT threads available on request.

Conversion formula for this series: $\dot{V}_2 = \dot{V}_1 \cdot \sqrt{\frac{p_2}{p_1}}$

Ordering Type + Material no. + Code = Ordering no.
example: 4F5.218 + 1Y + AG = 4F5.218.1Y.AG



Assembly accessories can be found in Chapter 9 "Accessories".