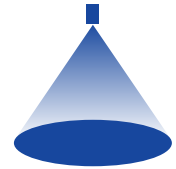


HelixFlow Full cone nozzles Series 4Fx

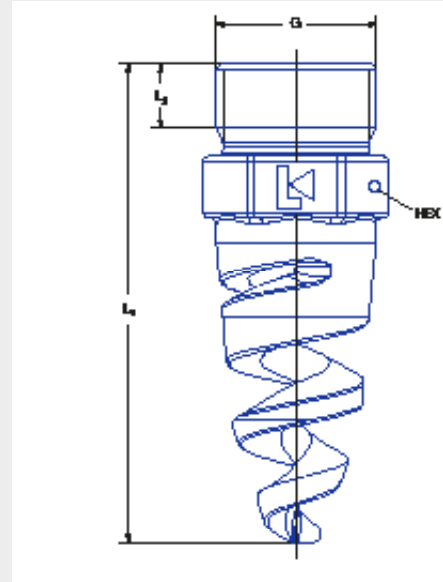


Features:

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

Applications:


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

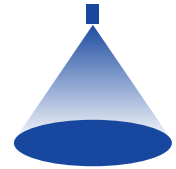






Series 4Fx

Male thread

Connection	G	Dimensions [in]		
		L ₁	L ₂	Flat
BG	1/2 NPT	2.56	0.39	22
BK	3/4 NPT	3.74	0.46	27
BM	1 NPT	4.84	0.50	34
BR	1 1/2 NPT	6.02	0.65	50
BV	2 NPT	8.00	0.73	60

Spray angle	Ordering no.					Narrowest free cross section Ø [in]	V̇ water [gal/min]								Weight [lb]	Spray width [m]			
	1Y	Connection					p [psi]									H = 1640	H = 3280		
		Stainless steel 316L	3/4 NPT	1 NPT	1 1/2 NPT		2 NPT	5	10	20	30	2.0 bar	40	60				80	145
60° 	4F5.254	●	BK				0.24	14.47	20.47	28.95	35.46	132	40.94	50.15	57.91	77.96	.23	0.6	0.8
	4F5.334	●		BM			0.28	23.25	32.88	46.50	56.95	212	65.76	80.54	93.00	125.21	.47	0.6	1.0
	4F5.354	●		BM			0.28	25.88	36.60	51.77	63.40	236	73.21	89.66	103.53	139.39	.47	0.6	1.0
	4F5.394	●		BM			0.28	32.90	46.53	65.80	80.60	300	93.06	113.98	131.61	177.19	.41	0.6	1.0
	4F5.454	●			BR		3.54	46.61	65.92	93.22	114.18	425	131.84	161.47	186.45	251.02	1.26	0.8	1.2
	4F5.504	●			BR		0.39	61.42	86.86	122.84	150.45	560	173.72	212.76	245.68	330.75	1.16	0.6	1.0
	4F5.524	●			BR		0.43	69.10	97.71	138.19	169.25	630	195.43	239.36	276.38	372.10	1.16	0.8	1.2
	4F5.584	●				BV	0.79	98.71	139.59	197.42	241.79	900	279.19	341.94	394.84	531.57	2.11	0.8	1.2
	4F5.614	●				BV	0.94	122.84	173.72	245.67	300.89	1120	347.44	425.52	491.35	661.50	1.96	0.8	1.2



Spray angle	Ordering no.						Narrowest free cross section Ø [in]	V̇ water [gal/min]								Weight [lb]	Spray width [ft]			
	1Y	Connection						p [psi]									H = 1640	H = 3280		
		Stainless steel 316L	1/2 NPT	3/4 NPT	1 NPT	1 1/2 NPT		2 NPT	5	10	20	30	2.0 bar	40	60				80	145
90° 	4F5.166	●	BG				0.18	8.77	12.41	17.55	21.49	80	24.82	30.39	35.09	47.25	.17	2.95	4.59	
	4F5.216	●	BG				0.18	11.62	16.44	23.25	28.48	106	32.88	40.27	46.50	62.60	.16	2.62	1.6	
	4F5.256	●		BK			0.28	14.47	20.47	28.95	35.46	132	40.95	50.15	57.91	77.96	.23	2.95	4.59	
	4F5.336	●			BM		0.28	23.25	32.88	46.50	56.95	212	65.76	80.54	93.00	125.21	237	3.28	6.56	
	4F5.396	●			BM		0.31	32.90	46.53	65.80	80.60	300	93.06	113.98	131.61	177.19	.52	3.28	6.56	
	4F5.456	●				BR	0.43	46.61	65.92	93.22	114.18	425	131.84	161.47	186.45	251.02	1.05	2.95	4.59	
	4F5.506	●				BR	0.47	61.42	86.86	122.84	150.45	560	173.72	212.76	245.67	330.75	.97	3.28	5.25	
	4F5.526	●				BR	0.47	69.09	97.71	138.19	169.25	630	195.43	239.36	276.38	372.09	.93	2.62	4.59	
	4F5.586	●				BV	0.59	98.71	139.59	197.42	241.79	900	279.19	341.94	394.84	531.56	2.15	3.93	7.21	
	4F5.616	●				BV	0.59	122.84	173.72	245.67	300.89	1120	347.44	425.52	491.35	661.50	1.98	3.93	6.56	
120° 	4F5.218	●	BG				0.20	11.62	16.44	23.25	28.48	106	32.88	40.27	46.50	62.60	.11	4.59	7.87	
	4F5.258	●		BK			0.24	14.47	20.47	28.95	35.46	132	40.95	50.15	57.91	77.96	.24	5.25	8.53	
	4F5.338	●			BM		0.28	23.25	32.88	46.50	56.95	212	65.76	80.54	93.00	125.21	.54	5.25	10.50	
	4F5.398	●			BM		0.35	32.90	46.53	65.80	80.60	300	93.06	113.98	131.61	177.19	.50	5.90	8.53	
	4F5.458	●				BR	0.47	46.61	65.92	93.22	114.18	425	131.84	161.47	186.45	251.02	1.23	4.59	7.87	
	4F5.508	●				BR	0.47	61.42	86.86	122.84	150.45	560	173.72	212.76	245.67	330.75	1.17	6.56	9.84	
	4F5.528	●				BR	0.47	69.09	97.71	138.19	169.25	630	195.43	239.36	276.38	372.09	1.12	5.25	8.53	
	4F7.588	●				BV	0.47	98.71	139.59	197.42	241.79	900	279.19	341.94	394.84	531.56	2.33	5.25	9.20	
	4F7.618	●				BV	0.51	122.84	173.72	245.67	300.89	1120	347.44	425.52	491.35	661.50	2.17	5.90	9.20	
150° 	4F7.339	●			BM		0.31	23.25	32.88	46.50	56.95	212	65.76	80.54	93.00	125.21	.57	7.21	13.78	
	4F7.399	●			BM		0.31	32.90	46.53	65.80	80.60	300	93.06	113.98	131.61	177.19	.52	7.21	13.78	
170° 	4F7.250	●		BK			0.24	14.47	20.47	28.95	35.46	132	40.95	50.15	57.91	77.96	.26	9.84	17.71	
	4F7.330	●			BM		0.31	23.25	32.88	46.50	56.95	212	65.76	80.54	93.00	125.21	.60	13.12	19.68	
	4F7.390	●			BM		0.31	32.90	46.53	65.80	80.60	300	93.06	113.98	131.61	177.19	.55	13.12	19.68	
	4F7.450	●				BR	0.39	46.61	65.92	93.22	114.18	425	131.84	161.47	186.45	251.02	1.41	9.18	14.43	
	4F7.500	●				BR	0.39	61.42	86.86	122.84	150.45	560	173.72	212.76	245.67	330.75	1.33	11.15	15.75	
	4F7.520	●				BR	0.39	69.09	97.71	138.19	169.25	630	195.43	239.36	276.38	372.09	1.29	11.15	14.43	

Ordering example: 4F5.334 + 1Y + BM = 4F5.334.1Y.BM

Conversion formula for this series: $\dot{V}_2 = \dot{V}_1 \cdot \sqrt{\frac{P_2}{P_1}}$