



## EHS high-performance flat spray nozzles Data sheet

## Model variants



### High-performance plug-in nozzles

These were designed especially for use with hand lances. Depending on the design variant, they can be used at an operating pressure of 2500 bar and are particularly impressive in terms of their efficiency, quality and service life. Their convenient shape means they can easily be fitted to hand lances using union nuts.



### High-performance flat spray nozzles

These are constructed as screw-in nozzles with a metric thread. Depending on the design, they are available with standard thread sizes and can be integrated directly into a metric ISO thread or ISO fine-thread connector.



### High-performance nozzle exit unit

The nozzle exit unit, produced in hard metal, can be used at operating pressures of up to 3000 bar depending on its design. Different flow rates and different high operating pressures are achieved depending on the bore size. This makes it easy to adapt to the specific circumstances of the customer.

## EHS flat spray plug-in nozzles

	Model	Size [mm]	Material	Bore sizes [mm]	Spray angle	Pressure range [bar]
	FS 50	Ø 5 Length: 5.0	High-grade steel, hardened	Ø 0.2 – Ø 0.85	6° – 60°	1500
	FS 100	Ø 8/Ø 12 Length: 14.0	High-grade steel, hardened	Ø 0.2 – Ø 0.85	6° – 60°	1500
	FS 150	Ø 8/Ø 12 Length: 14.0	High-grade steel, hardened	Ø 0.2 – Ø 0.85	6° – 60°	1500
	FS 200	Ø 8/Ø 12 Length: 20.0	High-grade steel, hardened	Ø 0.6 – Ø 4.6	6° – 60°	1500
	FS 250	Ø 8/Ø 12 Length: 20.0	High-grade steel, hardened	Ø 0.6 – Ø 4.6	6° – 60°	1500
	FS 300	Ø 8/Ø 14 Length: 20.0	High-grade steel, hardened	Ø 0.6 – Ø 4.6	6° – 60°	2500
	FS 400	Ø 17/Ø 12 Length: 25.0 – 28.6	High-grade steel, hardened	Ø 1.5 – Ø 3.4	6°	1200
	FS 500	Ø 7/Ø 10 Length: 13.0	High-grade steel, hardened	Ø 0.2 – Ø 2.0	6° – 60°	3000

## EHS flat spray nozzle exit units

	Model	Size [mm]	Material	Bore sizes [mm]	Spray angle	Pressure range [bar]
	ME-F 04	M 4 AG Länge: 6.0	High-grade steel, hardened	Ø 0.2 – Ø 1.0	10° – 45°	3000
	ME-F 06	M 6x0, 75 AG Länge: 7.0 – 8.0	High-grade steel, hardened	Ø 0.4 – Ø 2.0	10° – 45°	3000

## EHS flat spray screw-in nozzles

	Model	Size [mm]	Material	Bore sizes [mm]	Spray angle	Pressure range [bar]
	<b>FS-G 140</b>	G 1/4 AG Length: 12.0 SW17	High-grade steel	Ø 0.5 – Ø 6.0	10° – 120°	400
 	<b>FS-G 181</b>	1/8 NPT Length: 22.0 SW13	High-grade steel, hardened	Ø 0.5 – Ø 3.0	10° – 120°	400

# Capacity [l/min]

Bore size [mm]	Pressure [bar]									
	50	100	250	500	750	1000	1500	2000	2500	3000
0.15	0.07	0.10	0.16	0.22	0.27	0.31	0.38	0.44	0.49	0.54
0.2	0.12	0.18	0.28	0.39	0.48	0.56	0.68	0.79	0.88	0.96
0.25	0.19	0.27	0.43	0.61	0.75	0.87	1.06	1.23	1.37	1.50
0.3	0.28	0.40	0.62	0.88	1.08	1.25	1.53	1.77	1.98	2.16
0.35	0.38	0.54	0.85	1.20	1.47	1.70	2.08	2.41	2.69	2.95
0.4	0.50	0.70	1.11	1.57	1.92	2.22	2.72	3.14	3.51	3.85
0.43	0.57	0.81	1.28	1.82	2.22	2.57	3.14	3.63	4.06	4.45
0.45	0.63	0.89	1.41	1.99	2.44	2.81	3.44	3.98	4.45	4.87
0.5	0.78	1.10	1.74	2.46	3.01	3.47	4.25	4.91	5.49	6.01
0.55	0.94	1.33	2.10	2.97	3.64	4.20	5.15	5.94	6.64	7.28
0.6	1.12	1.58	2.50	3.54	4.33	5.00	6.12	7.07	7.91	8.66
0.65	1.31	1.86	2.93	4.15	5.08	5.87	7.19	8.30	9.28	10.16
0.7	1.52	2.15	3.40	4.81	5.89	6.81	8.33	9.62	10.76	11.79
0.75	1.75	2.47	3.91	5.52	6.77	7.81	9.57	11.05	12.35	13.53
0.8	1.99	2.81	4.44	6.28	7.70	8.89	10.89	12.57	14.05	15.39
0.85	2.24	3.17	5.02	7.10	8.69	10.03	12.29	14.19	15.87	17.38
0.9	2.52	3.56	5.62	7.95	9.74	11.25	13.78	15.91	17.79	19.48
0.95	2.80	3.96	6.27	8.86	10.85	12.53	15.35	17.73	19.82	21.71
1	3.11	4.39	6.94	9.82	12.03	13.89	17.01	19.64	21.96	24.05
1.05	3.42	4.84	7.66	10.83	13.26	15.31	18.75	21.65	24.21	26.52
1.1	3.76	5.31	8.40	11.88	14.55	16.80	20.58	23.76	26.57	29.11
1.15	4.11	5.81	9.18	12.99	15.91	18.37	22.49	25.97	29.04	31.81
1.2	4.47	6.32	10.00	14.14	17.32	20.00	24.49	28.28	31.62	34.64
1.3	5.25	7.42	11.74	16.60	20.33	23.47	28.75	33.19	37.11	40.65
1.4	6.09	8.61	13.61	19.25	23.57	27.22	33.34	38.50	43.04	47.15
1.5	6.99	9.88	15.62	22.10	27.06	31.25	38.27	44.19	49.41	54.12
1.6	7.95	11.24	17.78	25.14	30.79	35.55	43.54	50.28	56.21	61.58
1.7	8.97	12.69	20.07	28.38	34.76	40.14	49.16	56.76	63.46	69.52
1.8	10.06	14.23	22.50	31.82	38.97	45.00	55.11	63.63	71.15	77.94
1.9	11.21	15.85	25.07	35.45	43.42	50.14	61.40	70.90	79.27	86.84
2	12.42	17.57	27.78	39.28	48.11	55.55	68.04	78.56	87.83	96.22
2.1	13.69	19.37	30.62	43.31	53.04	61.25	75.01	86.61	96.84	106.08
2.2	15.03	21.26	33.61	47.53	58.21	67.22	82.32	95.06	106.28	116.42
2.3	16.43	23.23	36.73	51.95	63.62	73.47	89.98	103.90	116.16	127.25
2.4	17.89	25.30	40.00	56.56	69.28	79.99	97.97	113.13	126.48	138.55
2.5	19.41	27.45	43.40	61.38	75.17	86.80	106.31	122.75	137.24	150.34
2.6	20.99	29.69	46.94	66.38	81.30	93.88	114.98	132.77	148.44	162.61
2.7	22.64	32.02	50.62	71.59	87.68	101.24	124.00	143.18	160.08	175.36
2.8	24.35	34.43	54.44	76.99	94.29	108.88	133.35	153.98	172.16	188.59
2.9	26.12	36.93	58.40	82.59	101.15	116.80	143.05	165.18	184.67	202.30
3	27.95	39.53	62.50	88.38	108.24	124.99	153.08	176.76	197.63	216.49
3.1	29.84	42.20	66.73	94.37	115.58	133.46	163.46	188.74	211.02	231.16
3.2	31.80	44.97	71.11	100.56	123.16	142.21	174.17	201.12	224.86	246.32
3.3	33.82	47.83	75.62	106.94	130.98	151.24	185.23	213.88	239.13	261.95
3.4	35.90	50.77	80.27	113.52	139.03	160.54	196.62	227.04	253.84	278.07
3.5	38.04	53.80	85.06	120.30	147.33	170.13	208.36	240.59	268.99	294.67
3.6	40.25	56.92	89.99	127.27	155.87	179.99	220.44	254.54	284.58	311.75
3.7	42.51	60.12	95.06	134.44	164.65	190.12	232.85	268.88	300.61	329.31
3.8	44.84	63.42	100.27	141.80	173.67	200.54	245.61	283.61	317.08	347.35
3.9	47.23	66.80	105.62	149.36	182.93	211.23	258.71	298.73	333.99	365.87
4	49.69	70.27	111.10	157.12	192.44	222.21	272.14	314.25	351.34	384.87
4.1	52.20	73.82	116.73	165.08	202.18	233.45	285.92	330.15	369.12	404.35
4.2	54.78	77.47	122.49	173.23	212.16	244.98	300.04	346.46	387.35	424.32
4.3	57.42	81.20	128.39	181.58	222.38	256.79	314.50	363.15	406.01	444.77
4.4	60.12	85.02	134.43	190.12	232.85	268.87	329.30	380.24	425.12	465.69
4.5	62.88	88.93	140.61	198.86	243.55	281.23	344.43	397.72	444.66	487.10



E. u. H. Schmidt GmbH + Co. KG  
Hutstraße 4  
96253 Untersiemau/Coburg  
Germany  
Tel.: +49 9565 9481-0

[www.schmidt-ehs.com](http://www.schmidt-ehs.com)  
[sales@schmidt-ehs.com](mailto:sales@schmidt-ehs.com)