

SURFACE PROCESSING

mvt AG offers a comprehensive, economically-priced range of sapphire nozzles for the most varied of applications in the field of surface processing. All of our nozzles consist of a stainless steel nozzle body with a sapphire orifice. Their special design gives them a high degree of stability and safety. Special designs and customer-specific solutions are available on request.

PROPERTIES AND ADVANTAGES

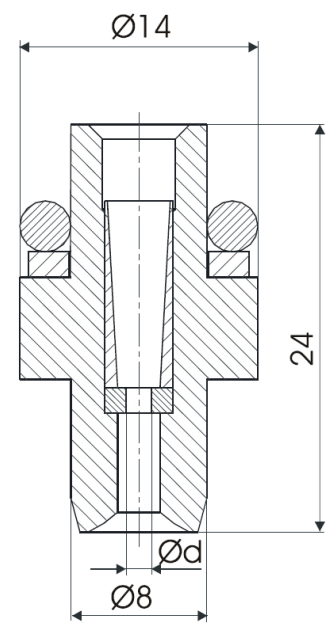
- ▶ Long lifetime
- ▶ Consistent jet quality
- ▶ Precision cutting accuracy
- ▶ Narrow cut width
- ▶ High cutting performance
- ▶ Longer lifetime of focusing tube
- ▶ Excellent price-to-performance ratio
- ▶ Swiss quality

CUSTOMER BENEFITS

- ▶ High productivity
- ▶ Minimal downtime
- ▶ Cost-effective manufacturing
- ▶ High quality standard
- ▶ Expert advice
- ▶ Reliable service

APPLICATIONS

- ▶ Automotive and aircraft industry
- ▶ Construction
- ▶ Mining
- ▶ Chemistry
- ▶ Iron, steel and metal industry
- ▶ Energy
- ▶ Drink
- ▶ Glass, porcelain and ceramics industry
- ▶ Wood industry
- ▶ Local firms
- ▶ Agriculture
- ▶ Machinery and Apparatus
- ▶ Food Processing
- ▶ Offshore Operations
- ▶ Shipbuilding
- ▶ Transportation
- ▶ Pulp and Paper Industry
- ▶ Cement and Concrete Industry



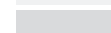

PERFORMANCE

Nozzle size in U.S. Gal / min at 40 psi	Nozzles Ød mm	Pressure in bar							
		200	500	750	1000	1500	2000	2500	3000
		Density of water							
		kg/m ³	kg/m ³	kg/m ³	kg/m ³	kg/m ³	kg/m ³	kg/m ³	kg/m ³
		1010.03	1020.68	1029.369	1037.9	1054.48	1070.4	1085.675	1100.3
		l/min	l/min	l/min	l/min	l/min	l/min	l/min	
0002	0.10	0.064	0.100	0.122	0.141	0.171	0.196	0.217	0.237
0003	0.125	0.100	0.157	0.191	0.220	0.267	0.306	0.340	0.370
0004	0.15	0.143	0.226	0.275	0.316	0.385	0.441	0.489	0.532
0006	0.175	0.195	0.307	0.375	0.431	0.523	0.600	0.666	0.725
0008	0.20	0.255	0.401	0.489	0.563	0.684	0.784	0.870	0.946
0012	0.25	0.402	0.632	0.771	0.887	1.078	1.235	1.371	1.492
0018	0.30	0.579	0.911	1.111	1.277	1.552	1.778	1.974	2.148
0025	0.35	0.808	1.270	1.549	1.781	2.165	2.481	2.754	2.997
0032	0.40	1.055	1.659	2.023	2.327	2.827	3.240	3.597	3.914
0041	0.45	1.339	2.106	2.568	2.953	3.588	4.112	4.565	4.968
0051	0.50	1.653	2.600	3.170	3.646	4.430	5.077	5.636	6.133
0062	0.55	2.008	3.159	3.853	4.430	5.383	6.169	6.849	7.453
0074	0.60	2.390	3.759	4.585	5.272	6.406	7.342	8.151	8.869
0087	0.65	2.813	4.425	5.396	6.205	7.540	8.641	9.593	10.438
0100	0.70	3.262	5.131	6.258	7.196	8.744	10.022	11.125	12.106
0115	0.75	3.745	5.891	7.184	8.261	10.038	11.504	12.772	13.897
0131	0.80	4.261	6.702	8.174	9.399	11.421	13.091	14.531	15.812
0150	0.85	4.878	7.673	9.357	10.761	13.075	14.985	16.635	18.102
0168	0.90	5.469	8.602	10.491	12.064	14.658	16.800	18.650	20.294
0192	0.95	6.254	9.837	11.997	13.796	16.763	19.212	21.328	23.208
0213	1.00	6.930	10.900	13.293	15.287	18.574	21.288	23.632	25.715
0258	1.10	8.39	13.19	16.08	18.50	22.48	25.76	28.60	31.12
0307	1.20	9.99	15.72	19.17	22.04	26.78	30.70	34.08	37.08
0361	1.30	11.73	18.45	22.50	25.87	31.43	36.02	39.99	43.52
0418	1.40	13.60	21.39	26.09	30.00	36.46	41.78	46.38	50.47
0480	1.50	15.61	24.56	29.95	34.44	41.84	47.96	53.24	57.94
0546	1.60	17.76	27.94	34.08	39.19	47.61	54.57	60.58	65.92
0617	1.70	20.05	31.57	38.47	44.24	53.75	61.60	68.39	74.42
0684	1.80	22.24	34.98	42.66	49.06	59.61	68.32	75.84	82.53
0760	1.90	24.71	38.87	47.40	54.51	66.24	75.91	84.27	91.70
0865	2.00	28.13	44.25	53.96	62.06	75.40	86.42	95.94	104.39
0979	2.10	31.84	50.09	61.08	70.24	85.35	97.82	108.59	118.16
1106	2.20	35.95	56.54	68.94	79.29	96.35	110.42	112.59	133.39
1205	2.30	39.19	61.64	75.17	86.45	105.04	120.38	133.64	145.42
1313	2.40	42.67	67.12	81.85	94.13	114.37	131.08	145.52	158.34
1424	2.50	46.30	72.83	88.82	102.13	124.10	142.23	157.90	171.81
1540	2.60	50.08	78.77	96.06	110.47	134.23	153.84	170.78	185.83
1661	2.70	54.01	94.92	106.60	119.13	144.75	165.90	184.17	200.40
1781	2.80	58.08	91.35	111.41	128.12	155.67	178.41	198.06	215.52
1916	2.90	92.30	98.00	119.51	137.43	166.99	191.39	212.46	231.19
2051	3.00	66.67	104.87	127.90	147.07	178.71	204.81	227.37	247.41

INSTRUCTIONS

During manual operation of high-pressure spray guns and lances, which may be included recoil force in the longitudinal axis of the spray device may not exceed 250N!

If the recoil force is 150N, has been working with a body support!

	< 150 N
	< 250 N
	> 250 N