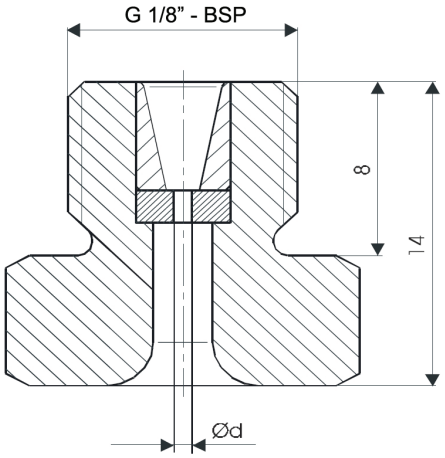
mvt
micro technologies

SURFACE PROCESSING

Sapphire screw-in nozzles Type 946

Max. 1000 bar

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

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PERFORMANCE

Nozzle size in U.S. Gal / min at 40 psi	Nozzles Ød mm	Pressure in bar							
		50	100	150	200	250	500	750	1000
		Density of water							
		kg/m³	kg/m³	kg/m³	kg/m³	kg/m³	kg/m³	kg/m³	kg/m³
		1004.61675	1006.427	1008.23075	1010.028	1011.81875	1020.675	1029.36875	1037.9
		l/min	l/min	l/min	l/min	l/min	l/min	l/min	l/min
0002	0.10	0.032	0.045	0.055	0.064	0.071	0.100	0.122	0.141
0003	0.125	0.050	0.071	0.086	0.100	0.111	0.157	0.191	0.220
0004	0.15	0.072	0.102	0.124	0.143	0.160	0.226	0.275	0.316
0006	0.175	0.099	0.139	0.171	0.197	0.220	0.309	0.377	0.434
0008	0.20	0.128	0.181	0.221	0.255	0.285	0.401	0.489	0.563
0012	0.25	0.202	0.285	0.349	0.402	0.449	0.632	0.771	0.887
0018	0.30	0.288	0.407	0.497	0.574	0.641	0.903	1.101	1.266
0024	0.35	0.405	0.572	0.700	0.808	0.902	1.270	1.549	1.781
0031	0.40	0.515	0.727	0.890	1.026	1.146	1.614	1.969	2.264
0040	0.45	0.652	0.921	1.128	1.301	1.453	2.046	2.495	2.869
0050	0.50	0.821	1.160	1.420	1.638	1.830	2.577	3.143	3.614
0059	0.55	0.994	1.404	1.718	1.982	2.214	3.118	3.802	4.373
0071	0.60	1.183	1.671	2.045	2.359	2.635	3.711	4.525	5.204
0084	0.65	1.388	1.961	2.400	2.769	3.093	4.355	5.311	6.107
0097	0.70	1.605	2.267	2.774	3.200	3.575	5.034	6.139	7.060
0111	0.75	1.855	2.621	3.207	3.700	4.133	5.820	7.098	8.162
0126	0.80	2.136	3.018	3.694	4.261	4.760	6.702	8.174	9.399
0147	0.85	2.412	3.408	4.170	4.810	5.374	7.566	9.228	10.611
0165	0.90	2.708	3.826	4.681	5.401	6.033	8.495	10.360	11.913
0179	0.95	3.055	4.317	5.282	6.094	6.807	9.584	11.689	13.441
0198	1.00	3.474	4.909	6.007	6.930	7.741	10.900	13.293	15.287
0244	1.10	3.98	5.63	6.88	7.94	8.87	12.49	15.24	17.52
0293	1.20	4.74	6.70	8.19	9.45	10.56	14.87	18.13	20.85
0346	1.30	5.56	7.86	9.62	11.09	12.39	17.45	21.28	24.47
0404	1.40	6.45	9.11	11.15	12.87	14.37	20.24	24.68	28.38
0469	1.50	7.40	10.46	12.80	14.77	16.50	23.23	28.33	32.58
0535	1.60	8.42	11.90	14.57	16.80	18.77	26.43	32.23	37.07
0604	1.70	9.51	13.44	16.44	18.97	21.19	29.84	36.39	41.85
0678	1.80	10.66	15.07	18.44	21.27	23.76	33.45	40.80	46.91
0760	1.90	11.88	16.79	20.54	23.70	26.47	37.27	45.46	52.27
0865	2.00	13.26	18.73	22.92	26.44	29.54	41.59	50.37	57.92
0979	2.10	14.62	20.65	25.27	29.16	32.57	45.86	55.53	63.86
1102	2.20	16.04	22.67	27.74	32.00	35.74	50.33	60.94	70.08
1205	2.30	17.53	24.77	30.31	34.97	39.07	55.01	66.61	76.60
1313	2.40	19.09	26.98	33.01	38.08	42.54	59.90	72.53	83.40
1424	2.50	20.72	29.27	35.82	41.32	46.16	64.99	78.70	90.50
1540	2.60	22.41	31.66	38.74	44.69	49.92	70.29	85.12	97.88
1661	2.70	24.16	34.14	41.78	48.20	53.84	75.81	91.79	105.56
1787	2.80	25.99	36.72	44.93	51.83	57.90	81.52	98.72	113.52
1916	2.90	27.87	39.39	48.19	55.60	62.11	87.45	105.90	121.78
2051	3.00	29.83	42.15	51.58	59.50	66.47	93.59	113.33	130.32

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